

RAW SEQUENCE LISTING

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Application Serial Number: 09/545,998A
Source: IFw16
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IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/545,998A

DATE: 12/10/2004

TIME: 13:41:47

Input Set : D:\14094-20005.10 - seq list from client.txt
 Output Set: N:\CRF4\12102004\I545998A.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Gorman, Daniel M.
 7 Randall, Troy D.
 8 Zlotnik, Albert

10 (ii) TITLE OF INVENTION: MAMMALIAN CELL SURFACE ANTIGENS; RELATED
 11 REAGENTS

13 (iii) NUMBER OF SEQUENCES: 9

15 (iv) CORRESPONDENCE ADDRESS:
 16 (A) ADDRESSEE: DNAX Research Institute
 17 (B) STREET: 901 California Avenue
 18 (C) CITY: Palo Alto
 19 (D) STATE: California
 20 (E) COUNTRY: USA
 21 (F) ZIP: 94304-1104

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk
 25 (B) COMPUTER: IBM PC compatible
 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/545,998A
 C--> 31 (B) FILING DATE: 10-Apr-2000

32 (C) CLASSIFICATION:

38 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: US 60/023,419
 36 (B) FILING DATE: 16-AUG-1996
 39 (A) APPLICATION NUMBER: US 60/027,901
 40 (B) FILING DATE: 07-OCT-1996

42 (viii) ATTORNEY/AGENT INFORMATION:

43 (A) NAME: Ching, Edwin P.
 44 (B) REGISTRATION NUMBER: 34,090
 45 (C) REFERENCE/DOCKET NUMBER: DX0612K

47 (ix) TELECOMMUNICATION INFORMATION:

48 (A) TELEPHONE: 650-852-9196
 49 (B) TELEFAX: 650-496-1200

52 (2) INFORMATION FOR SEQ ID NO: 1:

54 (i) SEQUENCE CHARACTERISTICS:

55 (A) LENGTH: 1073 base pairs
 56 (B) TYPE: nucleic acid
 57 (C) STRANDEDNESS: single
 58 (D) TOPOLOGY: linear

60 (ii) MOLECULE TYPE: cDNA

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63 (ix) FEATURE:
 64 (A) NAME/KEY: CDS
 65 (B) LOCATION: 68..751
 68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 70 CTCGAGATCC ATTGTGCTGG AAAGGGAAC CCTGAAATCA GCCGACAGAAA GACTCAGGAG 60
 72 AAGCACT ATG GGG GCA TGG GCC ATG CTG TAT GGA GTC TCG ATG CTC TGT 109
 73 Met Gly Ala Trp Ala Met Leu Tyr Gly Val Ser Met Leu Cys
 74 1 5 10
 76 GTG CTG GAC CTA GGT CAG CCG AGT GTA GTT GAG GAG CCT GGC TGT GGC 157
 77 Val Leu Asp Leu Gly Gln Pro Ser Val Val Glu Glu Pro Gly Cys Gly
 78 15 20 25 30
 80 CCT GGC AAG GTT CAG AAC GGA AGT GGC AAC AAC ACT CGC TGC TGC AGC 205
 81 Pro Gly Lys Val Gln Asn Gly Ser Gly Asn Asn Thr Arg Cys Cys Ser
 82 35 40 45
 84 CTG TAT GCT CCA GGC AAG GAG GAC TGT CCA AAA GAA AGG TGC ATA TGT 253
 85 Leu Tyr Ala Pro Gly Lys Glu Asp Cys Pro Lys Glu Arg Cys Ile Cys
 86 50 55 60
 88 GTC ACA CCT GAG TAC CAC TGT GGA GAC CCT CAG TGC AAG ATC TGC AAG 301
 89 Val Thr Pro Glu Tyr His Cys Gly Asp Pro Gln Cys Lys Ile Cys Lys
 90 65 70 75
 92 CAC TAC CCC TGC CAA CCA GGC CAG AGG GTG GAG TCT CAA GGG GAT ATT 349
 93 His Tyr Pro Cys Gln Pro Gly Gln Arg Val Glu Ser Gln Gly Asp Ile
 94 80 85 90
 96 GTG TTT GGC TTC CGG TGT GTT GCC TGT GCC ATG GGC ACC TTC TCC GCA 397
 97 Val Phe Gly Phe Arg Cys Val Ala Cys Ala Met Gly Thr Phe Ser Ala
 98 95 100 105 110
 100 GGT CGT GAC GGT CAC TGC AGA CTT TGG ACC AAC TGT TCT CAG TTT GGA 445
 101 Gly Arg Asp Gly His Cys Arg Leu Trp Thr Asn Cys Ser Gln Phe Gly
 102 115 120 125
 104 TTT CTC ACC ATG TTC CCT GGG AAC AAG ACC CAC AAT GCT GTG TGC ATC 493
 105 Phe Leu Thr Met Phe Pro Gly Asn Lys Thr His Asn Ala Val Cys Ile
 106 130 135 140
 108 CCG GAG CCA CTG CCC ACT GAG CAA TAC GGC CAT TTG ACT GTC ATC TTC 541
 109 Pro Glu Pro Leu Pro Thr Glu Gln Tyr Gly His Leu Thr Val Ile Phe
 110 145 150 155
 112 CTG GTC ATG GCT GCA TGC ATT TTC CTA ACC ACA GTC CAG CTC GGC 589
 113 Leu Val Met Ala Ala Cys Ile Phe Phe Leu Thr Thr Val Gln Leu Gly
 114 160 165 170
 116 CTG CAC ATA TGG CAG CTG AGG AGG CAA CAC ATG TGT CCC CGA GAG ACC 637
 117 Leu His Ile Trp Gln Leu Arg Arg Gln His Met Cys Pro Arg Glu Thr
 118 175 180 185 190
 120 CAG CCA TTC GCG GAG GTG CAG TTG TCA GCT GAG GAT GCT TGC AGC TTC 685
 121 Gln Pro Phe Ala Glu Val Gln Leu Ser Ala Glu Asp Ala Cys Ser Phe
 122 195 200 205
 124 CAG TTC CCT GAG GAG GAA CGC GGG GAG CAG ACA GAA GAA AAG TGT CAT 733
 125 Gln Phe Pro Glu Glu Arg Gly Glu Gln Thr Glu Glu Lys Cys His
 126 210 215 220
 128 CTG GGG GGT CGG TGG CCA TGAGGCCTGG TCTTCCTCTG TGCCCCAAGC 781
 129 Leu Gly Gly Arg Trp Pro

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130 225
 132 CAGACGCTAC AAGACTTGCC CAGCTATACC CTTGGTGAGA GCAGGGCCA TGCTCTGCAC 841
 134 CCTTCCCTGG GCCTGGCCCT GCTCCCCCTCA ACAGTGGCGG AAGTGGGTGT ATGAGAGCGG 901
 136 TGAGTTACGA TTGGGCCCTA TGGCTGCCTT TCTCATTTGA CAGCTCTGTT GGAGTAGGGT 961
 138 CTTTGGGCCCT ACCAAGAGCA CCACGTTAG CACAAGATCT TGTACAAGAA TAAATACTTG 1021
 140 TTTAGTAACC TGAAAAAAA AAAAAGG GCGGCCGCGG AGGCCGAATT CC 1073

143 (2) INFORMATION FOR SEQ ID NO: 2:

145 (i) SEQUENCE CHARACTERISTICS:

146 (A) LENGTH: 228 amino acids
 147 (B) TYPE: amino acid
 148 (D) TOPOLOGY: linear

150 (ii) MOLECULE TYPE: protein

152 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

154 Met Gly Ala Trp Ala Met Leu Tyr Gly Val Ser Met Leu Cys Val Leu
 155 1 5 10 15
 157 Asp Leu Gly Gln Pro Ser Val Val Glu Glu Pro Gly Cys Gly Pro Gly
 158 20 25 30
 160 Lys Val Gln Asn Gly Ser Gly Asn Asn Thr Arg Cys Cys Ser Leu Tyr
 161 35 40 45
 163 Ala Pro Gly Lys Glu Asp Cys Pro Lys Glu Arg Cys Ile Cys Val Thr
 164 50 55 60
 166 Pro Glu Tyr His Cys Gly Asp Pro Gln Cys Lys Ile Cys Lys His Tyr
 167 65 70 75 80
 169 Pro Cys Gln Pro Gly Gln Arg Val Glu Ser Gln Gly Asp Ile Val Phe
 170 85 90 95
 172 Gly Phe Arg Cys Val Ala Cys Ala Met Gly Thr Phe Ser Ala Gly Arg
 173 100 105 110
 175 Asp Gly His Cys Arg Leu Trp Thr Asn Cys Ser Gln Phe Gly Phe Leu
 176 115 120 125
 178 Thr Met Phe Pro Gly Asn Lys Thr His Asn Ala Val Cys Ile Pro Glu
 179 130 135 140
 181 Pro Leu Pro Thr Glu Gln Tyr Gly His Leu Thr Val Ile Phe Leu Val
 182 145 150 155 160
 184 Met Ala Ala Cys Ile Phe Phe Leu Thr Thr Val Gln Leu Gly Leu His
 185 165 170 175
 187 Ile Trp Gln Leu Arg Arg Gln His Met Cys Pro Arg Glu Thr Gln Pro
 188 180 185 190
 190 Phe Ala Glu Val Gln Leu Ser Ala Glu Asp Ala Cys Ser Phe Gln Phe
 191 195 200 205
 193 Pro Glu Glu Glu Arg Gly Glu Gln Thr Glu Glu Lys Cys His Leu Gly
 194 210 215 220
 196 Gly Arg Trp Pro
 197 225

199 (2) INFORMATION FOR SEQ ID NO: 3:

201 (i) SEQUENCE CHARACTERISTICS:

202 (A) LENGTH: 1006 base pairs
 203 (B) TYPE: nucleic acid
 204 (C) STRANDEDNESS: single
 205 (D) TOPOLOGY: linear

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207 (ii) MOLECULE TYPE: cDNA
 210 (ix) FEATURE:
 211 (A) NAME/KEY: CDS
 212 (B) LOCATION: 1..723
 215 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 217 ATG GCA CAG CAC GGG GCG ATG GGC GCG TTT CGG GCC CTG TGC GGC CTG 48
 218 Met Ala Gln His Gly Ala Met Gly Ala Phe Arg Ala Leu Cys Gly Leu
 219 1 5 10 15
 221 GCG CTG CTG TGC GCG CTC AGC CTG GGT CAG CGC CCC ACC GGG GGT CCC 96
 222 Ala Leu Leu Cys Ala Leu Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro
 223 20 25 30
 225 GGG TGC GGC CCT GGG CGC CTC CTG CTT GGG ACG GGA ACG GAC GCG CGC 144
 226 Gly Cys Gly Pro Gly Arg Leu Leu Leu Gly Thr Gly Thr Asp Ala Arg
 227 35 40 45
 229 TGC TGC CGG GTT CAC ACG ACG CGC TGC TGC CGC GAT TAC CCG GGC GAG 192
 230 Cys Cys Arg Val His Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu
 231 50 55 60
 233 GAG TGC TGT TCC GAG TGG GAC TGC ATG TGT GTC CAG CCT GAA TTC CAC 240
 234 Glu Cys Cys Ser Glu Trp Asp Cys Met Cys Val Gln Pro Glu Phe His
 235 65 70 75 80
 237 TGC GGA GAC CCT TGC TGC ACG ACC TGC CGG CAC CAC CCT TGT CCC CCA 288
 238 Cys Gly Asp Pro Cys Cys Thr Thr Cys Arg His His Pro Cys Pro Pro
 239 85 90 95
 241 GGC CAG GGG GTA CAG TCC CAG GGG AAA TTC AGT TTT GGC TTC CAG TGT 336
 242 Gly Gln Gly Val Gln Ser Gln Gly Lys Phe Ser Phe Gly Phe Gln Cys
 243 100 105 110
 245 ATC GAC TGT GCC TCG GGG ACC TTC TCC GGG GGC CAC GAA GGC CAC TGC 384
 246 Ile Asp Cys Ala Ser Gly Thr Phe Ser Gly Gly His Glu Gly His Cys
 247 115 120 125
 249 AAA CCT TGG ACA GAC TGC ACC CAG TTC GGG TTT CTC ACT GTG TTC CCT 432
 250 Lys Pro Trp Thr Asp Cys Thr Gln Phe Gly Phe Leu Thr Val Phe Pro
 251 130 135 140
 253 GGG AAC AAG ACC CAC AAC GCT GTG TGC GTC CCA GGG TCC CCG CCG GCA 480
 254 Gly Asn Lys Thr His Asn Ala Val Cys Val Pro Gly Ser Pro Pro Ala
 255 145 150 155 160
 257 GAG CCG CTT GGG TGG CTG ACC GTC GTC CTC CTG GCC GTG GCC GCC TGC 528
 258 Glu Pro Leu Gly Trp Leu Thr Val Val Leu Leu Ala Val Ala Ala Cys
 259 165 170 175
 261 GTC CTC CTC CTG ACC TCG GCC CAG CTT GGA CTG CAC ATC TGG CAG CTG 576
 262 Val Leu Leu Leu Thr Ser Ala Gln Leu Gly Leu His Ile Trp Gln Leu
 263 180 185 190
 265 AGG AGT CAG TGC ATG TGG CCC CGA GAG ACC CAG CTG CTG CTG GAG GTG 624
 266 Arg Ser Gln Cys Met Trp Pro Arg Glu Thr Gln Leu Leu Glu Val
 267 195 200 205
 269 CCG CCG TCG ACC GAA GAC GCC AGA AGC TGC CAG TTC CCC GAG GAA GAG 672
 270 Pro Pro Ser Thr Glu Asp Ala Arg Ser Cys Gln Phe Pro Glu Glu Glu
 271 210 215 220
 273 CGG GGC GAG CGA TCG GCA GAG GAG AAG GGG CGG CTG GGA GAC CTG TGG 720
 274 Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly Asp Leu Trp

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275	225	230	235	240			
277	TGAGCCTGGC	CGTCCTCCGG	GGCCACCGAC	CGCAGCCAGC	CCCTCCCCAG		
278	Val				773		
281	GAGCTCCCCA	GGCCGCAGGG	GCTCTGCCTT	CTGCTCTGGG	CCGGGCCCTG	CTCCCTGGC	833
283	AGCAGAACGTG	GGTGCAGGAA	GGTGGCAGTG	ACCAGCGCCC	TGGACCATGC	AGTTCGGC	893
285	CCGCTCTAAA	GGATCCAAGC	TTACGTACGC	GTGCATGCGA	CGTCATAGCT	CTTCTATAGT	953
287	GTCACCTAAA	TTCAATTAC	TGGCCGTCGT	TTTACAACGT	CCTGACTGGG	AAA	1006
290	(2) INFORMATION FOR SEQ ID NO: 4:						
292	(i) SEQUENCE CHARACTERISTICS:						
293	(A) LENGTH: 241 amino acids						
294	(B) TYPE: amino acid						
295	(D) TOPOLOGY: linear						
297	(ii) MOLECULE TYPE: protein						
299	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:						
301	Met Ala Gln His Gly Ala Met Gly Ala Phe Arg Ala Leu Cys Gly Leu						
302	1	5	10	15			
304	Ala Leu Leu Cys Ala Leu Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro						
305	20	25	30				
307	Gly Cys Gly Pro Gly Arg Leu Leu Leu Gly Thr Gly Thr Asp Ala Arg						
308	35	40	45				
310	Cys Cys Arg Val His Thr Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu						
311	50	55	60				
313	Glu Cys Cys Ser Glu Trp Asp Cys Met Cys Val Gln Pro Glu Phe His						
314	65	70	75	80			
316	Cys Gly Asp Pro Cys Cys Thr Thr Cys Arg His His Pro Cys Pro Pro						
317	85	90	95				
319	Gly Gln Gly Val Gln Ser Gln Gly Lys Phe Ser Phe Gly Phe Gln Cys						
320	100	105	110				
322	Ile Asp Cys Ala Ser Gly Thr Phe Ser Gly Gly His Glu Gly His Cys						
323	115	120	125				
325	Lys Pro Trp Thr Asp Cys Thr Gln Phe Gly Phe Leu Thr Val Phe Pro						
326	130	135	140				
328	Gly Asn Lys Thr His Asn Ala Val Cys Val Pro Gly Ser Pro Pro Ala						
329	145	150	155	160			
331	Glu Pro Leu Gly Trp Leu Thr Val Val Leu Leu Ala Val Ala Ala Cys						
332	165	170	175				
334	Val Leu Leu Leu Thr Ser Ala Gln Leu Gly Leu His Ile Trp Gln Leu						
335	180	185	190				
337	Arg Ser Gln Cys Met Trp Pro Arg Glu Thr Gln Leu Leu Leu Glu Val						
338	195	200	205				
340	Pro Pro Ser Thr Glu Asp Ala Arg Ser Cys Gln Phe Pro Glu Glu Glu						
341	210	215	220				
343	Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly Asp Leu Trp						
344	225	230	235	240			
346	Val						
349	(2) INFORMATION FOR SEQ ID NO: 5:						
351	(i) SEQUENCE CHARACTERISTICS:						
352	(A) LENGTH: 723 base pairs						
353	(B) TYPE: nucleic acid						

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/545,998A

DATE: 12/10/2004

TIME: 13:41:48

Input Set : D:\14094-20005.10 - seq list from client.txt
Output Set: N:\CRF4\12102004\I545998A.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]